SPERRY UNIVAC
Operating System/3
(OS/3)
Report Program
Generator II (RPG II)
Summary

SUMMARY OF RPG II CALCULATION OPERATIONS

			1		
Conditions	Factor 1	Operation	Factor 2	Result Field	Resulting Indicators
9 17	18 27	28 32	33 42	43 48	54 59
		ADD			
		BEGSR			
THE KALL		BITOF			
		BITON			
		CHAIN			
	W/6749-419-3	COMP		******	
		DEBUG			2.7
		DIV		11 11 11	
		ENDSR		ngg Eastman di	
	Service Control	EXCPT			
		EXIT			
		EXSR			
VALSO PARTS		FORCE			
		GOTO			
		LOKUP			
More Legal		MHHZO			
		MHLZO			
		MLHZO			
		MLLZO			
		MOVE			
		MOVEA			
		MOVEL			
		MULT			
		READ			
	-	RLABL			24 (110)
DEVICES AND AND AND		SETLL			
		SETOF			
		SETON			
		SORT			
		SUB			100
		TAG			
		TESTB			
		TESTN			
		TESTZ			
		TIME			
		ULABL			or Novelland Service assessment
		XFOOT			
		Z-ADD			
	L	Z-SUB			SM DOME

OPTIONAL

____ BLANK

RPG II INDICATORS

Indicator Definition

Ind	licator	Permissible						
Туре	Where Defined	Entries						
Record identification indicator	Input format specifications form columns 19–20	01-99, L1-L9, LR, and H1-H9						
Field indicator	Input format specifications form columns 65–70	01–99, and H1H9						
Control level indicator	Input format specifications form columns 59–60	L1-L9						
Resulting indicator	Calculation specifications form columns 54—59	01-99, L1-L9, LR, H0, H1-H9, OA-OG, U1-U8 and OV						
Overflow indicator	File description specifications form columns 33—34	OA-OG, and OV						
Internal indicators	Internally by RPG II	1P, LO, LR, MR, and HO						
External indicator	Internally by RPG II	U1-U8						

Indicator Use

Inc	ficators	
How Where Used Specified		Permissible Entries
File conditioning	File description specifications form columns 71–72	U1-U8
Field record relation	Input format specifications form columns 63—64	01–99, L1–L9, MR, H1–H9, and U1–U8
Control level	Calculation specifications form columns 7—8	LO, L1—L9, and LR
Calculation conditioning	Calculation specifications form columns 9—17	01-99, L0-L9, LR, MR, H0, H1-H9, OA-OG, OV, and U1-U8
Output conditioning	Output format specifications form columns 23-31	01-99, 1P, L0-L9, LR, MR, H0, H1-H9, OA-OG, OV, and U1-U8

Indicator Type	When Set On	When Set Off					
Record identification indicator	When the specified record is read and prior to the execution of total calculations.	After the current processing cycle is completed and before the next record is read during the next cycle.					
Field indicator	When the condition the indicator represents is present in the specified field.	Prior to the next time the field is to be tested for the condition.					
Control level indicator	When the value in the specified control field changes. (All lower level indicators are also set on.)	When the following detail cycle is completed.					
Resulting indicator	When the calculation is performed and the condition that the indica- tor represents is present.	The next time the calculation is per- formed and the condition that the indicator represents is not present.					
Overflow indicator	When a line is printed on the form on or past the forms over-flow channel or if the form is spaced past that point.	After the following heading and detail lines are printed.					
U1—U8 external indicators	By a // \triangle SET \triangle UPSI job control statement prior to the execution of your program or by a SETON operation within your program or when used as a resulting indicator in calculations.	By a SETOF operation within your program.					
1P (first page) internal indicator	At the beginning of program exe- cution.	Before the first input record is read					
HOH9 internal indicators	By an error condition (H0) or by a SETON operation within your program.	By a SETOF operation within your program.					
LO internal indicator	Always on.	Never					
LR (last record) internal indicator	After the last record in the last file is processed or by a SETON operation in your program.	Never					
MR (matching record) internal indicator	When all matching fields in a re- cord of a secondary file match all the matching fields in the pri- mary file.	When all total calculations, output, and overflow for the records have been executed.					

•

*ERROR Field Format

BYTE	0	13	4–7	8-11
CONTENTS	ERROR CODE	STATUS BYTES	ADDRESS POINTER 1	ADDRESS POINTER 2

Contents of *ERROR Fields

Error Code

Operator

Summary of Error Messages, *ERROR Field Contents, and Operator Control Options

Program	Error Message That Indicates Condition	or Message That Indicates Condition Error Code		I	l '	Control	
Action	That Set HO Indicator On Graphic		Hexa-	Address Pointer	Address Pointer 2	Options	
1)	Grapme	decimal	2	2	3	
c	RPG001 UNDEFINED RECORD TYPE	A	CI	-	IORB	1, 2, 3	
С	RPG002 COLLATING SEQUENCE ERROR	8	C2	-	FILE DES	1, 2, 3	
С	RPG003 RECORD SEQUENCE ERROR	C	C3	-	FILE DES	1, 2, 3	
T	RPG004 INVALID ARRAY INDEX	D	C4	TLF	INDEX	0, 2, 3	
T	RPG005 NEGATIVE SQUARE ROOT	E	C5	FIELD	-	0, 2, 3	
T	RPG006 PUT (UPDATE) NO GET	F	C6	T-	IORB	0, 2, 3	
T	RPG007 FILE NOT OPENED	G	C7	T-	-	2, 3	
T	RPG008 TABLE SEQUENCE ERROR	Н	C8	-	TLF	0, 2, 3	
T	RPG009 TABLE FULL	ı	C9	RECORD	TLF	0, 2, 3	
T	RPG014 INVALID KEY FOR CHAINING	J	D1	KEY	IORB	2, 3	
T	RPG036 SPECIAL FILE ERROR	K	D2	-	IOR8	2, 3	
T	RPG012 SAM ERROR	L	D3	-	IORB	2, 3	
T	RPG013 READ ISSUED TO DEMAND FILE AT EOF	M	D4	-	FILE DES	0, 2, 3	
С	RPG032 INVALID CHAINING REQUEST	N	D5	_	-	2, 3	
_	RPG027 DISPLAY CONSOLE ERROR	0	D6	-	_	1, 2, 3	
T	RPG034 CARD READ/PUNCH ERROR	P	D7	-	_	2, 3	
T	RPG035 PRINTER ERROR	a	D8	-	_	2, 3	
С	RPG018 DAM NO RECORD FOUND	R	D9	KEY	IORB	1, 2, 3	
Ť	RPG019 DAM OTHER	S	E2	KEY	IORB	2, 3	
T	RPG020 ISAM ERROR	T	E3	-	IORB	2, 3	
C	RPG021 ISAM NO RECORD FOUND	U	E4	KEY	IORB	1, 2, 3	
T	RPG033 GETCS ERROR	V	E5	-	-	2, 3	
C	RPG023 ISAM OVERFLOW AREA FULL	W	E6	KEY	IORB	0, 2, 3	
T	RPG029 NON NUMERIC DATA INPUT TO NUMERIC FIELD	х	E7	FIELD	-	0, 2, 3	
С	RPG025 ISAM DUPLICATE RECORD	Y	E8	KEY	IORB	0, 2, 3	
T	RPG030 DIVIDE BY ZERO EXCEPTION	Z	E9	FIELD	-	0, 2, 3	
T	RPG044 PROGRAM EXCEPTION ERROR	0	FO	_	-	2, 3	
T	RPG042 UNRECOVERABLE TELECOM- MUNICATIONS ERROR	1	F1	RCB	-	2, 3	
Т	RPG043 FILE ABORTED BY REMOTE TERMINAL OPERATOR	2	F2	RCB	-	2, 3	
T	RPG041 CONSOLE I/O ERROR	3	F3	-	IORB	2, 3	
T	RPG045 WORKSTATION ERROR	4	F4	-	_	2, 3	
NOTES:	(2) (Cont.)					
1) Progra C	am Action = program terminates after detail	RECOF		address of 1 with the er			
-	output; H0 indicator can be	RCB	-	address of 1	emote co	ntrol block	
	set off unless it was set on during heading or detail output.	TLF		address of t		nkage	
T 2) Addre	= program terminates immediately.	IORB	=	address of i		ut request	
		$\overline{}$					

(3) Operator Control Options

= continue

= controlled termination

= program terminates immediately

= bypass

0

1

2

3

FILE DES = address of file descriptor area.

= address of field associated with

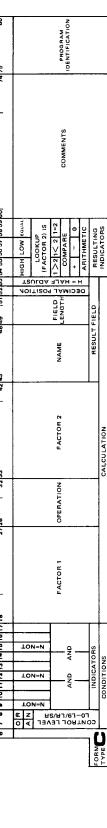
= address of key field associated

with the error condition.

the error condition.

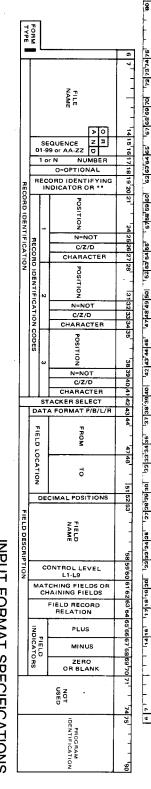
FIELD

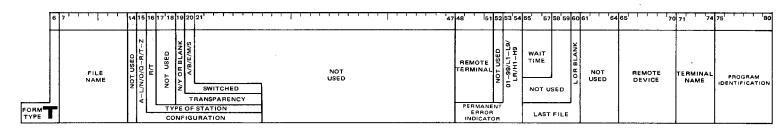
KEY



CALCULATION SPECIFICATIONS

INPUT FORMAT SPECIFICATIONS





TELECOMMUNICATIONS SPECIFICATIONS

LINE COUNTER SPECIFICATIONS

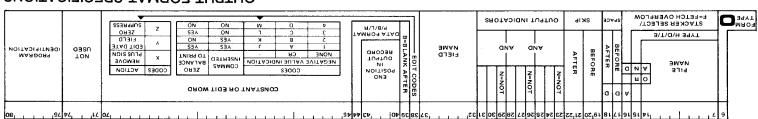
	Z	: ι				01		6		8		4		9		9		7		ε		z		ı		J NE	
MARDOR9 MOITADIRITNEGI	i o	LINE NO.	CH.	LINE	ch, vo,		c i o	NO: LINE	cH.		CH.		CH.	NO.	ijŏ		CH:		OH:		Ė.	NO	GH.	NO. LINE	FILE		



CONTROL CARD SPECIFICATIONS

FILE EXTENSION SPECIFICATIONS

	70	1		
TYPE I	FORM			
		01-99	or AA-ZZ	6 7
_	1 0		8 9	
OF CF	ECO	Ωz	C1-C9	1011
OF CHAINING FILE	RECORD SEQUENCE	NUMBER OF THE CHAINING FIELD	FROM FILE NAME	6 7 8 9 10 11 1 1 1 1 1 1 18 19
				191
		7.00	70	26 27
		Þ		26 27
		AHAY NAME	TABLEOR	
				32 33
		PER C	RIES O	35 36
		PER OR ARRAY ENTRY	NUMBER NUMBER OF ENTRIES LENGTH	-
		ENTRY	LENGTH	39 40 42 43 44 45 46
P,	/B/I	JA DA	POSITIONS	43
	A	/D S	EQUENCE	45 46
ALTERNATING FORMAT		NAME	TABLE	1
TINGF		ENTRY	LENGT	51 52
ORM,	-	37	I	5 <u>4</u>
7		CIMA A/D	L POSITIONS	56 6
		-/	SEQUENCE	51 52 54 55 56 57 58
			COMMENTS	
			JTS	7475
				1 74
		CENTRALION	РНОСНАМ	475
_				L



OUTPUT FORMAT SPECIFICATIONS

FILE DESCRIPTION SPECIFICATIONS

